

L Number	Hits	Search Text	DB	Time stamp
1	0	JP-52010847-\$.did.	EPO; JPO; DERWENT	2003/01/28 11:17
2	1	JP-77010847-\$.did.	EPO; JPO; DERWENT	2003/01/28 11:18
3	2	JP-60231723-\$.did.	EPO; JPO; DERWENT	2003/01/28 11:21
4	37	ethylenediamine and (glycidyl adj ether)	EPO; JPO; DERWENT	2003/01/28 11:29
5	105	ethylenediamine same (glycidyl adj ether)	USOCR	2003/01/28 11:45
6	1419	((516/129) or (564/475) or (564/477) or (564/503) or (564/504) or (564/506) or (564/508)).CCLS.	USPAT; US-PGPUB	2003/01/28 11:45
7	6429	ethylenediamine	USOCR	2003/01/28 12:57
8	834	((516/129) or (564/475) or (564/477) or (564/503) or (564/504) or (564/506) or (564/508)).CCLS.	USOCR	2003/01/28 11:45
9	103	ethylenediamine and (((516/129) or (564/475) or (564/477) or (564/503) or (564/504) or (564/506) or (564/508)).CCLS.)	USOCR	2003/01/28 11:46
10	10	2817675.URPN.	USPAT	2003/01/28 12:49
11	37797	ethylenediamine	USPAT; US-PGPUB	2003/01/28 12:57
12	114	((516/129) or (564/475) or (564/477) or (564/503) or (564/504) or (564/506) or (564/508)).CCLS.) and ethylenediamine	USPAT; US-PGPUB	2003/01/28 14:43
14	105	alkylglycidyl adj ether	USPAT; US-PGPUB	2003/01/28 15:16
15	289	\$4butylglycidyl adj ether	USPAT; US-PGPUB	2003/01/28 15:16
17	0	propanol near3 (aminoethyl adj amine)	USPAT; US-PGPUB	2003/01/28 15:15
16	1	propanol near3 aminoethylamine	USPAT; US-PGPUB	2003/01/28 15:16
18	376	(alkylglycidyl adj ether) (\$4butylglycidyl adj ether )	USPAT; US-PGPUB	2003/01/28 15:15
19	0	((516/129) or (564/475) or (564/477) or (564/503) or (564/504) or (564/506) or (564/508)).CCLS.) and ((alkylglycidyl adj ether) (\$4butylglycidyl adj ether ))	USPAT; US-PGPUB	2003/01/28 15:15
20	0	propanol near3 (aminoethyl adj amine)	USOCR	2003/01/28 15:16
21	3	alkylglycidyl adj ether	USOCR	2003/01/28 15:16
22	44	\$4butylglycidyl adj ether	USOCR	2003/01/28 15:16
23	0	propanol near3 aminoethylamine	USOCR	2003/01/28 15:16
24	0	((alkylglycidyl adj ether) (\$4butylglycidyl adj ether )) and (((516/129) or (564/475) or (564/477) or (564/503) or (564/504) or (564/506) or (564/508)).CCLS.)	USOCR	2003/01/28 15:17
25	6	((alkylglycidyl adj ether) (\$4butylglycidyl adj ether )) same ethylenediamine	USPAT; US-PGPUB	2003/01/28 15:20
26	1	eda same (bge ibge hge 4ibge 4bge)	USPAT; US-PGPUB	2003/01/28 15:21

DERWENT-ACC-NO: 1986-004352  
DERWENT-WEEK: 198601  
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TITLE: Hydroxy:alkylamine additive, for epoxy! resins -  
prepd. by reacting  
aliphatic amine with epichlorohydrin

PATENT-ASSIGNEE: MITSUBISHI RAYON CO LTD[MITR]

PRIORITY-DATA: 1984JP-0061828 (March 29, 1984)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
JP 60231723 A	November 18, 1985	N/A
007	N/A	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP 60231723A	N/A	1984JP-0061828
March 29, 1984		

INT-CL (IPC): C08G059/64; C09D003/58 ; C09J003/16

ABSTRACTED-PUB-NO: JP 60231723A

BASIC-ABSTRACT: Additive of formula (I) is new. R1, R2, R3  
and R4 are H, a  
1-17C (un)satd. aliphatic gp., alicyclic gp., aromatic gp.,  
heterocyclic gp.,

~~or heterocycle-residue except nitrogen bound by R1-R4;~~

however, these gps. may  
be substd. by halogen, nitro, alkoxy, allyloxy or acetyl;  
R1, R2, R3 and R4 may  
be identical or different.

(I) may be obtd. by reaction of cpd. of formula (II) and  
cpd. of formula (III).  
Pref. (II) is e.g. an aliphatic amine such as methylamine,  
ethylamine,  
n-propylamine, 3-ethoxy-propylamine,  
dibutylaminopropylamine, allylamine,  
2-ethylhexylamine, hexamethylenediamine or  
dicyclohexylamine, aromatic amine

such as aniline, p-aminobenzoic acid, m-xylylenediamine or diaminodiphenyl ether, or other cpd. such as dibenzylamine, 4-aminopyridine, N-aminopropylmorpholine, bisaminopropylpiperadine, piperadine, 5-fluorouracil, beta-alanine, glutamic acid or aminocaproic acid. (III) is e.g. epichlorohydrin, phenyl glycidyl ether, cyclohexene oxide, ethylene oxide, dimethylpentane oxide, diglycidyl ether, butanediol diglycidyl ether, ethylene glycol diglycidyl ether, divinylbenzene dioxide, butyl glycidyl ether, styrene oxide, allyl glycidyl ether, dipentene monooxide or 3(pentadecyl) phenyl glycidyl ether.

ADVANTAGE - (I) can markedly elevate bending strength and elastic modulus of epoxy resins.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

HYDROXY ALKYLAMINE ADDITIVE POLYEPOXIDE RESIN PREPARATION  
 REACT ALIPHATIC AMINE  
 EPICHLOROHYDRIN

DERWENT-CLASS: A21 E19 G02 G03

CPI-CODES: A05-A01B; A08-M09B; E07-H; E10-B03; G02-A02G;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

F010	F011	F014	F019	F020	F021	F029	F111	F199	F421
F423	F431	F433	G001	G002	G003	G010	G011	G012	G013
G019	G030	G039	G040	G050	G100	G111	G112	G113	G553
G563	G599	H321	H322	H323	H341	H342	H343	H361	H362
H363	H381	H382	H383	H4	H401	H481	H521	H522	H523
H541	H542	H543	H561	H562	H563	H581	H582	H583	H584
H600	H602	H608	H609	H621	H622	H623	H641	H642	H643
H661	H662	H663	H681	H682	H683	H684	H685	H686	H689
H716	H721	H722	H723	H8	J011	J012	J171	J172	J581
J582	J583	M121	M122	M123	M124	M125	M126	M132	M143
M210	M211	M212	M213	M214	M215	M216	M220	M221	M222
M223	M224	M225	M226	M231	M232	M233	M240	M262	M272

M273 M280 M281 M282 M283 M311 M312 M313 M314 M315  
M316 M320 M321 M322 M323 M331 M332 M333 M334 M342  
M343 M344 M349 M352 M362 M371 M372 M373 M381 M382  
M383 M391 M392 M393 M413 M414 M415 M416 M510 M520  
M521 M522 M523 M530 M531 M532 M533 M540 M541 M542  
M543 M620 M710 M903 Q130 Q132

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1062S

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0034 0211 0222 0228 1282 1319 1323 1601 2000  
2180 2198 2199 2319  
2628 2632 1643

Multipunch Codes: 014 03& 163 169 170 171 173 199 226 231  
24& 273 311 336 342  
359 360 37- 42- 551 560 566 567 570 720 725

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1986-001952

DERWENT-ACC-NO: 1977-28443Y  
DERWENT-WEEK: 197716  
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TITLE: Fungicidal polyalkylene polyamine derivs. prepn. -  
e.g. (3)-octaoxy  
(2)-hydroxypropyl diethylene triamine

PATENT-ASSIGNEE: TAKEMOTO YUSHI KK[TAKT]

PRIORITY-DATA: 1969JP-0105442 (December 30, 1969)

PATENT-FAMILY:		LANGUAGE
PUB-NO	PUB-DATE	
PAGES	MAIN-IPC	
JP 77010847 B	March 26, 1977	N/A
000	N/A	

INT-CL (IPC): A01N009/20; A61K031/13 ; C07C093/04

ABSTRACTED-PUB-NO: JP 77010847B  
BASIC-ABSTRACT: Cpds. having fungicidal and mouldicidal  
activity are of formula  
(III). (III) are prepd. by treating polyalkylenepolyamine  
of formula (I): with  
glycidyl ether deriv. of general formula (II)

In the formula R is 2-3C alkylene; R1 is oleophile gp.  
comprising alkyl or  
6-16C alkylaryl; R2 is oleophile gp. of formula:  
R1OCH2-CH(OH)-CH2; R3-6 are  
each H or as R2 n is 1 or 2.

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TITLE-TERMS:  
FUNGICIDE DERIVATIVE PREPARATION HYDROXYPROPYL

DERWENT-CLASS: C03

CPI-CODES: C10-B01B; C12-A02;

CHEMICAL-CODES:

Chemical Indexing M2 \*01\*

Fragmentation Code

H1 H4 H5 M282 M283 M210 M220 M225 M231 M232  
M233 M270 M281 M312 M313 M314 M332 M331 M322 M323

M342 M340 M343 M380 M393 H182 H183 H401 H481 H482  
H483 H484 H581 H582 H583 H584 H589 M620 N010 P002  
P241 P242 M510 M520 M530 M540 M720 M416 M902

Chemical Indexing M2 \*02\*

Fragmentation Code

H1 H4 H5 M282 M283 M210 M220 M225 M226 M231  
M232 M233 M240 M270 M281 M312 M313 M314 M332 M331  
M322 M323 M342 M340 M343 M380 M393 G040 M533 M532  
M531 H182 H183 H401 H481 H482 H483 H484 H541 H542  
H543 H581 H582 H583 H584 H589 N010 P002 P241 P242  
M510 M520 M540 M720 M414 M902

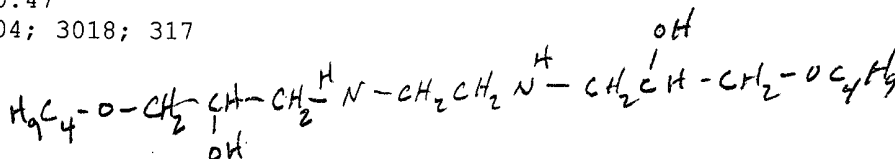
BEILSTEIN ONLINE 1779-2000

L3 ANSWER 1 OF 2 COPYRIGHT 2002 BEILSTEIN CDS MDLI

Beilstein Reg. No. (BRN): 1785066 Beilstein  
 Molecular Formula (MF): C16 H36 N2 O4  
 Chemical Name (CN): N,N'-bis-<2-hydroxy-3-isobutoxy-propyl>-ethylenediamine  
 N,N'-Bis-<2-hydroxy-3-isobutoxy-propyl>-aethylendiamin  
 Autonom Name (AUN): 1-<2-(2-hydroxy-3-isobutoxy-propylamino)-ethylamino>-3-isobutoxy-propan-2-ol  
 Beilstein Reference (SO): 4-04-00-01874  
 Formula Weight (FW): 320.47  
 Lawson Number (LN): 3204; 3018; 317

Ring System Data:

Number of Rings (CNR): 0  
 Acyclic Heteros (CNAH): 6



\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

Preparation:

PRE

Start: BRN=103667 1,2-epoxy-3-isobutoxy-propane, BRN=3665358  
 ethylenediamine hydrate

Reference(s):

1. Pollard; Wicker, J.Org.Chem., 17<1952>1, CODEN: JOCEAH

Note(s):

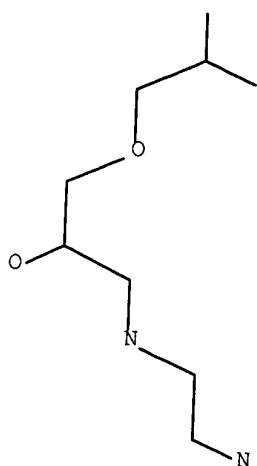
2. Handbook Data

L3 ANSWER 2 OF 2 COPYRIGHT 2002 BEILSTEIN CDS MDLI

Beilstein Reg. No. (BRN): 1747162 Beilstein  
 Molecular Formula (MF): C9 H22 N2 O2  
 Chemical Name (CN): 1-<2-amino-ethylamino>-3-isobutoxy-propan-2-ol  
 1-<2-Amino-aethylamino>-3-isobutoxy-propan-2-ol  
 Synonym (SY): N-<2-Hydroxy-3-isobutyloxy-propyl>-aethylendiamin;  
 3-<2-Amino-aethylamino>-2-hydroxy-1-isobutyloxy-propan  
 Autonom Name (AUN): 1-(2-amino-ethylamino)-3-isobutoxy-propan-2-ol  
 Beilstein Reference (SO): 3-04-00-00844  
 Formula Weight (FW): 190.29  
 Lawson Number (LN): 3204; 3018; 317

Ring System Data:

Number of Rings (CNR): 0  
 Acyclic Heteros (CNAH): 4



Preparation:

PRE

Detail: BRN=1739621

Reference(s):

1. Flores-Gallardo; Pollard, J.Org.Chem., 12<1947>832, CODEN: JOCEAH

Note(s):

2. Handbook Data

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